Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

What is claimed is:

Claim 1 (Currently Amended): A control system suitable for use with a grain harvester of the type having a sensor for detecting ~~the passage of~~ grain loss ~~thereby~~, the control system ~~controller~~ comprising:

a first relay, the first relay configured to be actuated upon receiving a signal from the sensor, the first relay, when actuated, configured to allow a first predetermined voltage to be communicated to a control mechanism of the harvester; and,

a second relay, the second relay configured to be actuated upon receiving a larger value signal from the sensor, the second relay, when actuated, to allow a second predetermined voltage to be communicated to the control mechanism of the harvester;

whereby the control system adjusts ~~is able to adjust~~ an operating parameter of the harvester in response to the effect that the signal from the sensor has on the operation of the first and second relays.

Claim 2 (Original): The control system of claim 1, wherein the operating parameter is the speed of the harvester relative to the ground.

Claim 3 (Original): The control system of claim 1, wherein the sensor comprises a transducer.

Claim 4 (Canceled): ~~The control system of claim 1, further comprising a second relay, the second relay configured to be actuated upon receiving a signal from the sensor, the second relay, when actuated, configured to allow a voltage to be communicated to a~~

~~control mechanism of the harvester;~~

~~whereby the control system is able to adjust an operating parameter of the harvester by a second predetermined amount in response to the signal from the sensor.~~

Claim 5 (Currently Amendedl): The control system of claim 1 [4], wherein the first and second relays are connected to each other in parallel.

Claim 6 (Currently Amended): The control system of claim 1 [4], wherein the operating parameter is the speed of the harvester relative to the ground.

Claim 7 (Original): The control system of claim 1, further comprising an alarm arrangement, the alarm arrangement configured to be actuated when the signal of the sensor exceeds an upper threshold.

Claim 8 (Original): The control system of claim 7, wherein the alarm arrangement comprises an audible indicator.

Claim 9 (Original): The control system of claim 7, wherein the alarm arrangement comprises a visual indicator.

Claim 10 (Currently Amended): A control system suitable for use with a grain harvester of the type having a sensor for detecting ~~the passage of~~ grain loss ~~thereby~~, the control system ~~controller~~ comprising:

a relay arrangement, the relay arrangement configured to be actuated upon receiving a signal from the sensor, the relay arrangement, when actuated, configured to allow at least two different voltages ~~a voltage~~ to be communicated to a control mechanism of the harvester;

whereby the control system is able to adjust an operating parameter of the harvester in response to the signal from the sensor.

Claim 11 (Canceled): ~~The control system of claim 10, wherein the relay arrangement is capable of forming a circuit, the circuit communicating the voltage to the control mechanism of the harvester.~~

Claim 12 (Currently Amended): The control system of claim 10, wherein the two ~~relay arrangement is capable of forming at least two circuit, with the two circuits communicating different~~ voltages are communicated to the control mechanism of the harvester through two circuits.

Claim 13 (Original): The control system of claim 12, wherein the two circuits are connected to each other in parallel.

Claim 14 (Original): The control system of claim 10, further comprising an alarm arrangement, the alarm arrangement configured to be actuated when the signal of the sensor exceeds an upper threshold.

Claim 15 (Original): A method of controlling an operating parameter of a grain harvester of the type having a sensor that detects the presence of grain as it passes through the harvester, the method comprising the steps of:

a) monitoring the output of the sensor;

b) actuating a relay when the sensor output reaches a threshold level to communicate a control signal to a control mechanism; and,

c) modifying the control signal before it reaches the control mechanism,

whereby the operating parameter of the harvester may be adjusted by the sensor output.

Claim 16 (Original): A method of controlling an operating parameter of a grain harvester of the type having a sensor that detects the presence of grain as it passes through the harvester, the method comprising the steps of:

a) monitoring the output of the sensor;

b) actuating a first relay when the sensor output reaches a threshold level;

c) actuating a second relay when the sensor output reaches a second threshold level, the first and second relays forming a circuit; and,

c) using the circuit to communicate a voltage to the control mechanism, whereby an operating parameter of the harvester may be adjusted by the sensor output.